

ET033384921US #3
4-23-02

Practitioner's Docket No. 00109

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patent application of: Michio TANIMOTO, Hideto HASHIBA

for *FIXED-BED SHELL-AND-TUBE REACTOR AND ITS USAGE*, the specification of which is being transmitted herewith.



Box Patent Application
Assistant Commissioner for Patents
Washington, D.C. 20231

INFORMATION DISCLOSURE STATEMENT

Section 1. Forms PTO/SB/08A and 08B (substitute for Form PTO-1449)

Attached please find six substitute PTO-1449 forms.

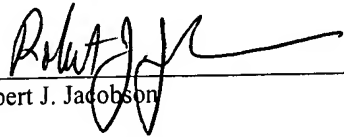
Section 2. Copies of Listed Information Items Accompanying This Statement

Legible copies of all items listed on the PTO-1449 forms accompany this information statement. These items are:

U.S. Patent Documents

1	4,077,530	Fukusen et al.	03/07/1978
3	4,402,349	Engert et al.	09/06/1983
4	4,461,327	Magin et al.	07/24/1984
5	4,812,437	Nojiri et al.	03/14/1989
7	5,395,812	Nagase et al.	03/07/1995
8	5,504,052	Rizkalla et al.	04/02/1996
9	5,145,824	Buffum et al.	09/08/1992
14	4,537,874	Sato et al.	08/27/1985
15	Re. 29,901	Wada et al.	02/06/1979
18	5,959,143	Sugi et al.	09/28/1999
20	4,707,460	Ishii et al.	11/17/1987
22	5,169,820	Ueda et al.	12/08/1992
24	4,760,153	Takahashi et al.	07/26/1988
25	5,959,124	Hashiba et al.	09/28/1999
31	5,994,580	Takahashi et al.	11/30/1999

I hereby certify that this correspondence and the documents referred to as enclosed therein are being deposited with the United States Postal Service on this date January 6, 2002 in an envelope as "Express Mail Post Office to Addressee" Mailing Number ET033384921US addressed to Assistant Commissioner for Patents, Washington, D.C. 20231.


Robert J. Jacobson

(Information Disclosure Statement--Page 1 of 6)

31	6,060,422	Takahashi et al.	05/09/2000
32	4,837,360	Kadowaki et al.	06/06/1989
33	3,801,634	Krabetz et al.	04/02/1974
34	5,198,581	Kawajiri et al.	03/30/1993
35	5,719,318	Kawajiri et al.	02/17/1998

Foreign Patent Documents

1	JP	52-3579		Sumitomo Chemical	01/12/1977
2	JP	62-30545	A	Mitsubishi Heavy Ind.	02/09/1987
3	JP	55-67325	A	BASF Aktiengesellschaft	05/21/1980
4	JP	57-21928		BASF Aktiengesellschaft	02/04/1982
5	JP	63-116743		Mitsubishi Petrochem	05/21/1988
6	JP	62-4444	A	Shell Internationale	01/10/1987
6	EP	0 207 550	B1	Shell Internationale	01/07/1987
7	JP	5-329368	A	Nippon Shokubai	12/14/1993
8	JP	10-510212	A	Scientific Design	10/06/1998
9	JP	5-84440	A	Shell Oil Company	04/06/1993
10	JP	50-13308	B	Mitsubishi Rayon	02/12/1975
10	GB	1 444 659		Mitsubishi Rayon	08/04/1976
11	JP	64-56634	A	Nippon Shokubai	03/03/1989
11	EP	0 304 867	A2	Nippon Shokubai	03/01/1989
12	JP	56-52013	B2	Standard Oil Co.	12/09/1981
12	GB	1 330 074		Standard Oil Co.	09/12/1973
13	JP	56-23969	B2	Standard Oil Co.	06/03/1981
13	GB	1 390 271		Standard Oil Co.	04/09/1975
14	JP	59-76541		Nippon Shokubai	05/01/1984
15	JP	49-11371		Nippon Shokubai	03/16/1974
16	JP	52-85091		Standard Oil Co.	07/15/1977
16	GB	1 566 882		Standard Oil Co.	05/08/1980
17	JP	6-279030	A	Tenten et al.	10/04/1994
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18	JP	8-299797	A	Nippon Kayaku	11/19/1996
19	JP	60-33539	B2	Nippon Shokubai	08/03/1985
19	EP	0 043 100	B2	Nippon Shokubai	01/06/1982
20	JP	3-26101	B2	Mitsubishi Rayon	04/09/1991
21	JP	59-12758	A	Sumitomo Kagaku	01/23/1984
22	JP	7-29056	B2	Nippon Shokubai	04/05/1995
23	JP	58-15176		BASF Aktiengesellschaft	03/24/1983
23	GB	1 496 832		BASF Aktiengesellschaft	01/05/1978
24	JP	62-78	A	Nippon Shokubai	01/06/1987
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26	JP	7-51573	A	Mitsubishi Chemical	02/28/1995
26	EP	0 608 837	B1	Mitsubishi Chemical	08/03/1994
27	JP	5-115783	A	Mitsui Toatsu	05/14/1993
28	JP	50-35088		Chevron Research	04/03/1975
28	GB	1 416 099		Chevron Research	12/03/1975
29	JP	9-316023	A	Toagosei Co Ltd	12/09/1997

30	JP	10-57813	A	Mitsubishi Chem Corp	03/03/1998
31	JP	10-120617	A	Toagosei Co., Ltd.	05/12/1998
32	JP	63-38331	B2	Mitsubishi Petrochemical	07/29/1988
33	JP	53-30688		BASF Aktiengesellschaft	08/29/1978
34	JP	4-217932	A	Nippon Shokubai	08/07/1992
35	JP	9-241209	A	Nippon Shokubai	09/16/1997
36	JP	7-10802	A	Sumitomo Chem	01/13/1995
37	JP	64-33162	U	Mitsubishi Denki	03/01/1989
38	JP	3-9770 B2		Nippon Shokubai	02/12/1991
39	JP	11-333282	A	Sumitomo Chem	12/07/1999
40	JP	1-33152	Y2	Mitsui Toatsu	10/09/1989

Other Prior Art -- Non Patent Literature Documents

None.

Section 3. Concise Explanation of Non-English Language List Information Items

A concise explanation of the relevance of the following foreign documents is found in the respective English abstract or English partial translation attached thereto:

2	JP	62-30545	A	Mitsubishi Heavy Ind.	02/09/1987
21	JP	59-12758	A	Sumitomo Kagaku	01/23/1984
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39	JP	11-333282	A	Sumitomo Chem	12/07/1999
40	JP	1-33152	Y2	Mitsui Toatsu	10/09/1989

Section 4. Cumulative Patents or Publications

The references within the following sets of references are members of the same patent family and are believed to be cumulative of each other. Copies of all references are being submitted.

1	JP	52-3579		Sumitomo Chemical	01/12/1977
1	US	4,077,530		Fukusen et al.	03/07/1978
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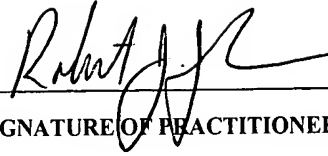
5	JP	63-116743		Mitsubishi Petrochem	05/21/1988
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6	JP	62-4444	A	Shell Internationale	01/10/1987
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25	JP	10-167711	A	Nippon Shokubai	06/23/1998
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33	JP	53-30688		BASF Aktiengesellschaft	08/29/1978
33	US	3,801,634		Krabetz et al.	04/02/1974
34	JP	4-217932	A	Nippon Shokubai	08/07/1992
34	US	5,198,581		Kawajiri et al.	03/30/1993
35	JP	9-241209	A	Nippon Shokubai	09/16/1997
35	US	5,719,318		Kawajiri et al.	02/17/1998

Section 5. Identification of Person Making This Information Disclosure Statement

The person making this certification is: the practitioner who signs below on the basis of the information supplied by an individual associated with the filing and prosecution of this

application.



SIGNATURE OF PRACTITIONER

Reg. No. 32,419

Robert J. Jacobson

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Robert J. Jacobson, P.A.
650 Brimhall Street South
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Customer No.: 23165

Please type a plus sign (+) inside this box → ☐

ET033384921U5

PTO/SB/08A (10-96)
Approved for use through 10/31/99. OMB 0651-0031
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449A/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	OF EVEN DATE
		Filing Date	OF EVEN DATE
		First Named Inventor	Michio TANIMOTO
		Group Art Unit	
		Examiner Name	
Sheet 1 of 6	Attorney Docket Number	00109	

PTO
10/04/97
01/06/02

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
	1	4,077,530		Fukusen et al.	03/07/1978	
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	35	5,719,318		Kawajiri et al.	02/17/1998	

FOREIGN PATENT DOCUMENTS								
Examiner Initials ¹	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴	Kind Code ⁵ (if known)				
	1	JP	52-3579		Sumitomo Chemical	01/12/1977		
	2	JP	62-30545	A	Mitsubishi Heavy Ind.	02/09/1987		
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	8	JP	10-510212	A	Scientific Design	10/06/1998		
	9	JP	5-84440	A	Shell Oil Company	04/06/1993		

Examiner Signature	Date Considered
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known	
				Application Number	OF EVEN DATE
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				First Named Inventor	Michio TANIMOTO
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Sheet	2	of	6	Attorney Docket Number	00109

[illegible]

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				Application Number	OF EVEN DATE
				Filing Date	OF EVEN DATE
				First Named Inventor	Michio TANIMOTO
				Group Art Unit	
				Examiner Name	
Sheet	6	of	6	Attorney Docket Number	00109

[illegible][illegible]

Examiner Signature		Date Considered	
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